

ABSTRACT

The invention presented in this work creates the possibility of a portable gun - revolver, pistol, carbine, rifle or hand-machine gun, to recognize its owner, in progressive levels of handling safety. Three levels of handling safety are established based on the evaluation of the grip force or its effect through material deformation or strain gage measurement. The first level of handling safety does not allow persons with grip force bellow a given limit, to shoot with a gun. The second level of handling safety enables the portable gun to recognize an individual as belonging to a smaller group than the first level. Now, the gun will only recognize for a successful firing an individual whose grip force, measured by one strain gage, fit into a small operational range, established and stored at the moment of acquisition by the owner. The third level of handling safety enables a portable gun to recognize an individual, as belonging to an even smaller group than in the second level. In practice this group is unitary and is composed by the person that grasped the handle to establish the average local grip forces, measured by six strain gages, at the acquisition moment.